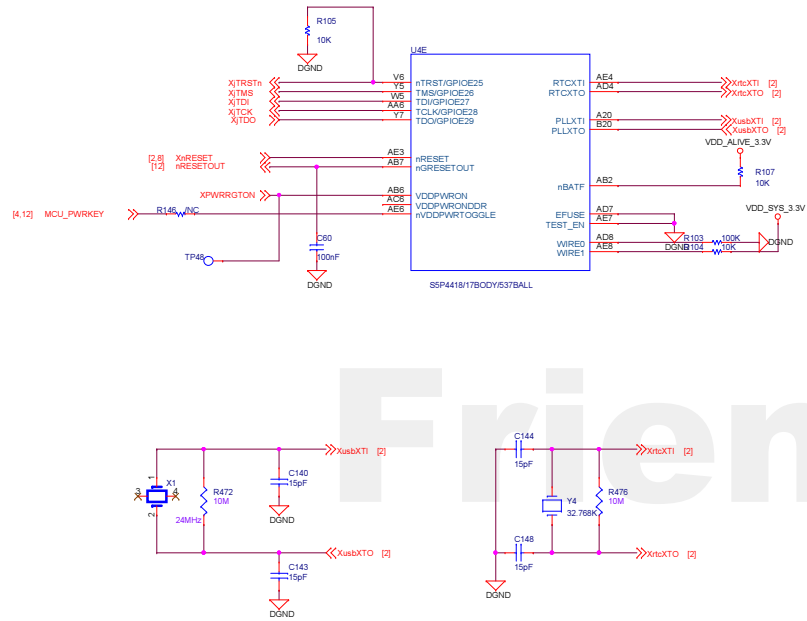


**NanoPi 2**  
**1507**

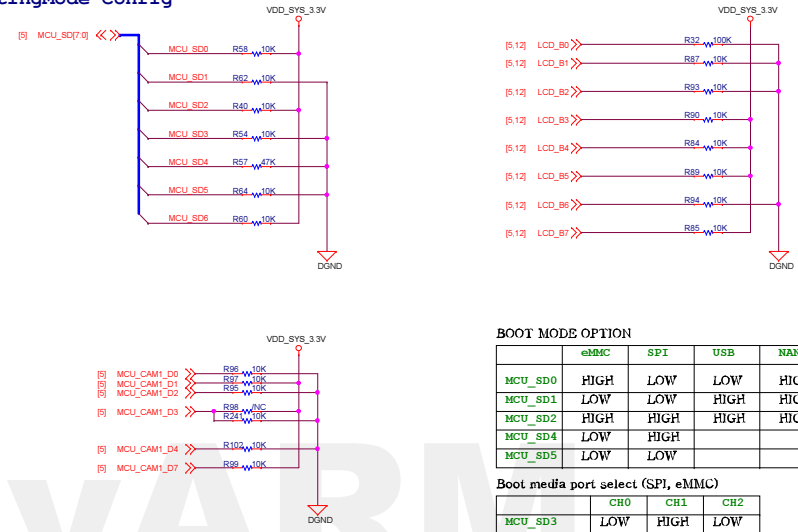
FriendlyARM

Title		
NanoPi 2		
Size	Document Number	Rev
A2	<Doc>	<Rev Code>
Date	Tuesday, October 20, 2015	Sheet 1 of 12

JTAG, Power Control, Clock Pins



BootingMode Config



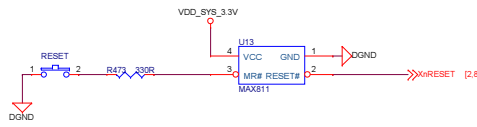
BOOT MODE OPTION

	eMMC	SPI	USB	NAND
MCU_SD0	HIGH	LOW	LOW	HIGH
MCU_SD1	LOW	LOW	HIGH	HIGH
MCU_SD2	HIGH	HIGH	HIGH	HIGH
MCU_SD4	LOW	HIGH	HIGH	
MCU_SD5	LOW	LOW		

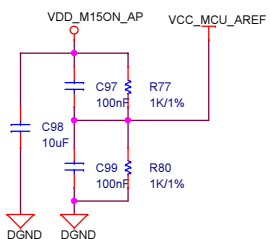
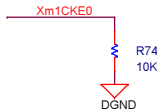
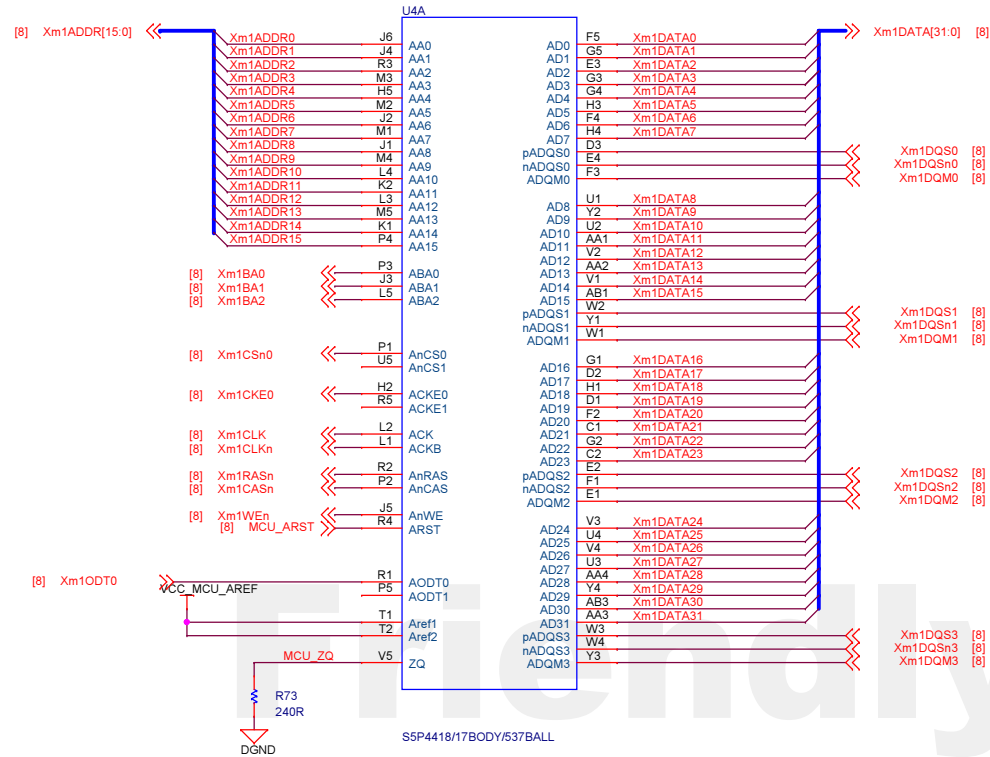
Boot media port select (SPI, eMMC)

	CH0	CH1	CH2
MCU_SD3	LOW	HIGH	LOW
MCU_CAM1_D3	LOW	LOW	HIGH

Reset

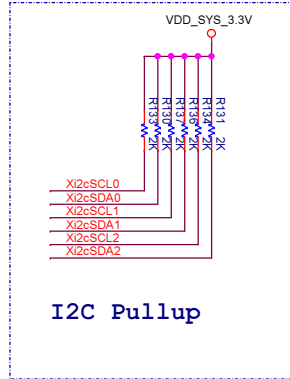


# S5P4418 - DDR3



Title		
NanoPi 2		
Size	Document Number	Rev
A3		
Date:	Tuesday, October 20, 2015	Sheet 3 of 12

S5P4418 - GPIO



UART

I2C

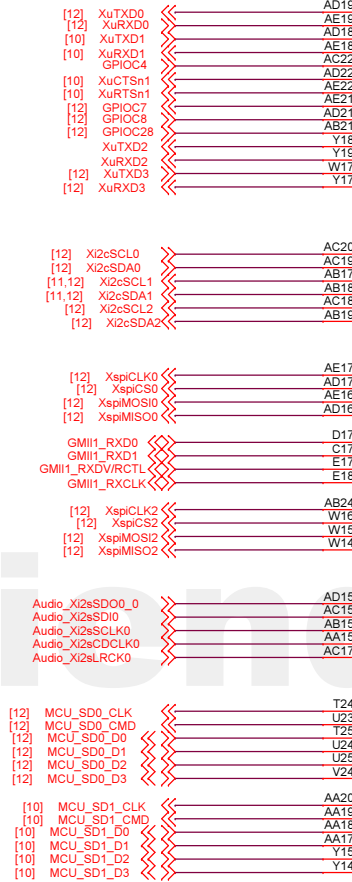
SPI/GMAC

AC97/IIS

SD0/Boot

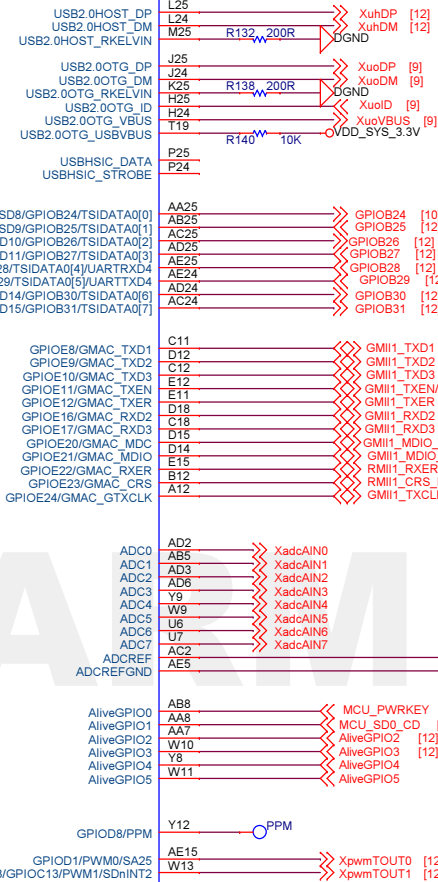
SD1

U4D



S5P4418/177BODY/537BALL

R132, R136 is as close as possible to the MCU



USB

SD\MPEG\_TS\GPIO

GMAC

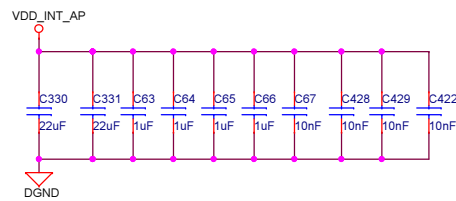
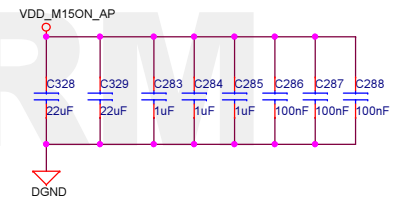
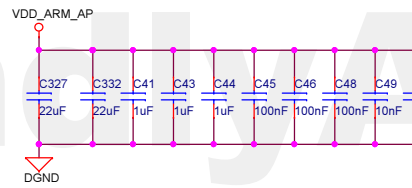
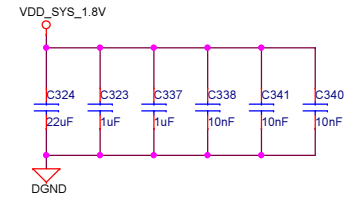
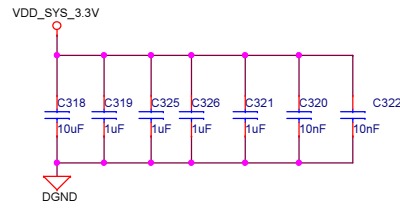
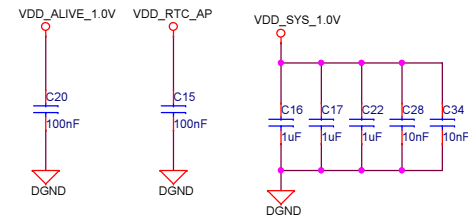
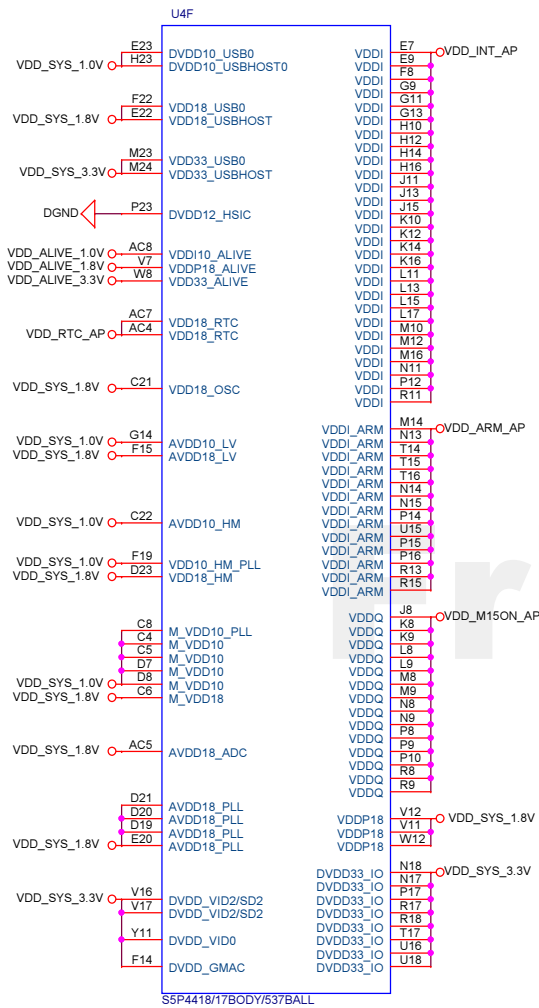
ALIVE GPIO

PWM

Title	NanoPi 2	
Size	Document Number	Rev
A3	<Doc>	<Rev Code>
Date:	Tuesday, October 20, 2015	Sheet 4 of 12

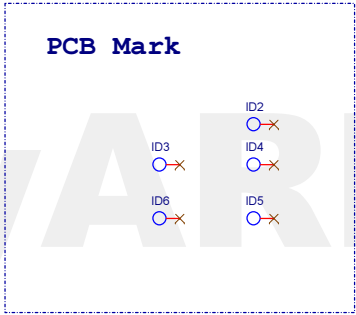
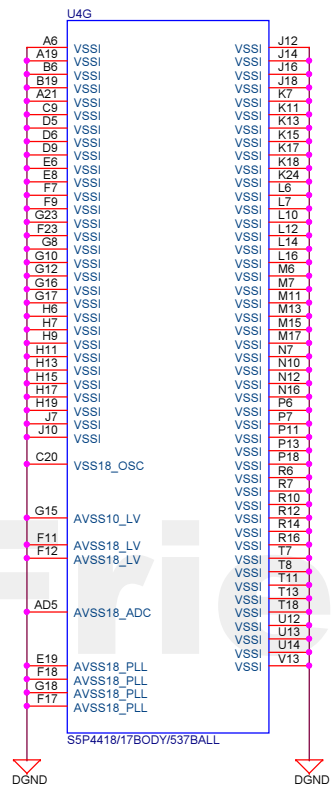


# S5P4418-Power

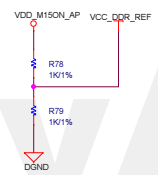
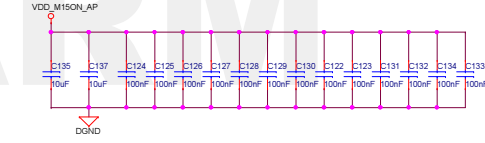
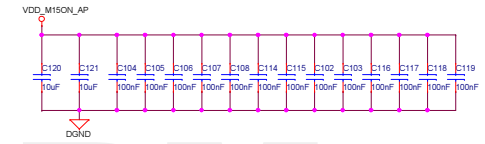
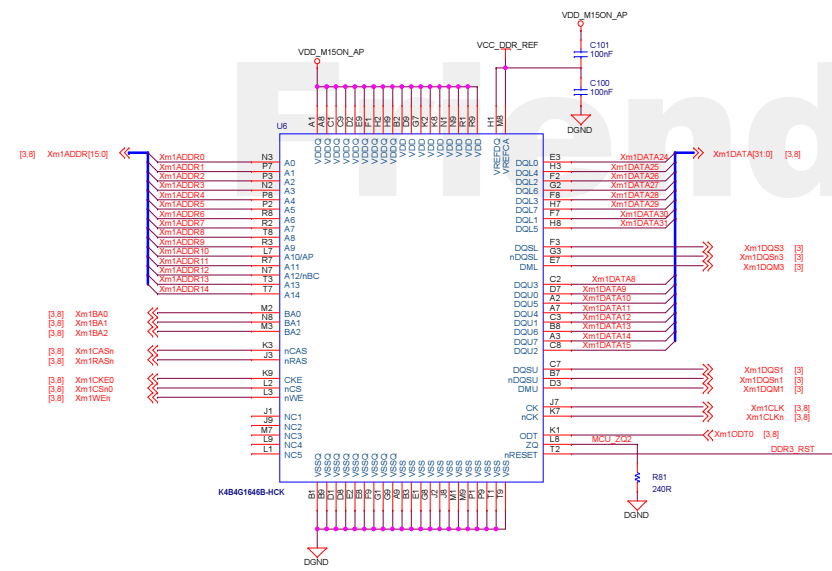
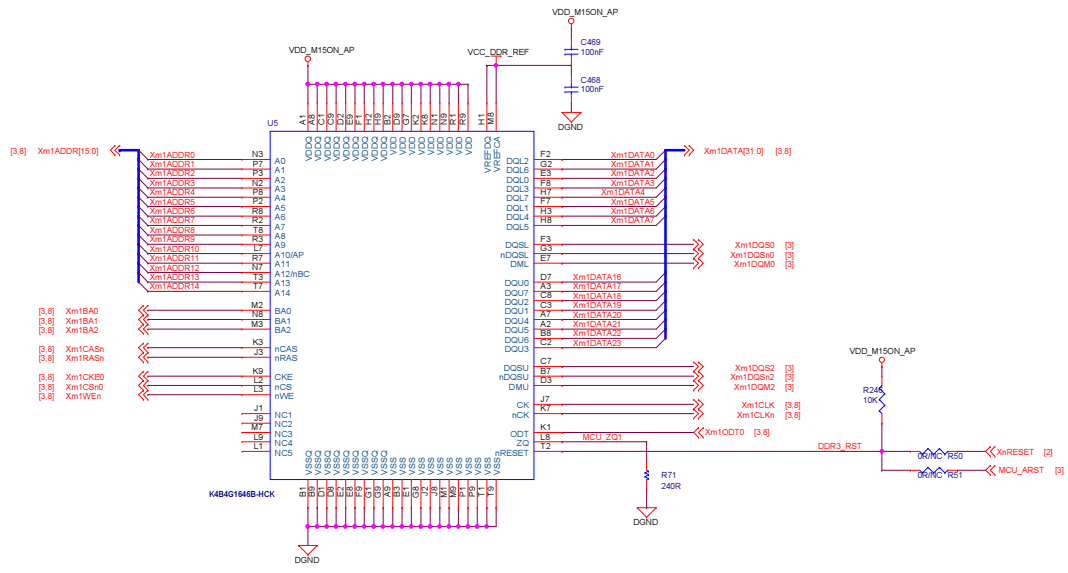


Title		
NanoPi 2		
Size	Document Number	Rev
A3		
Date:	Tuesday, October 20, 2015	Sheet 6 of 12

S5P4418-VSS

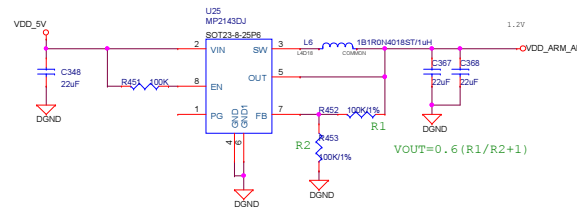
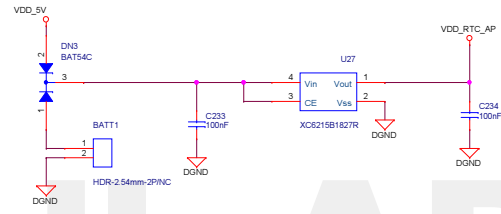
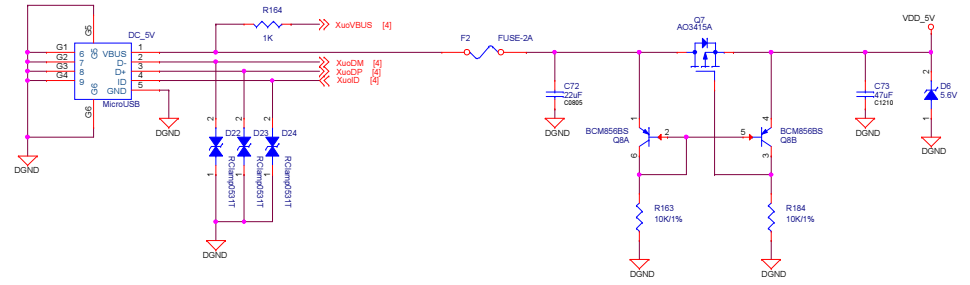
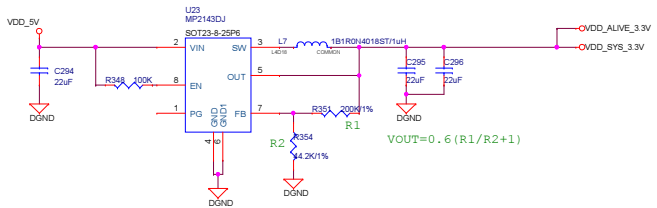
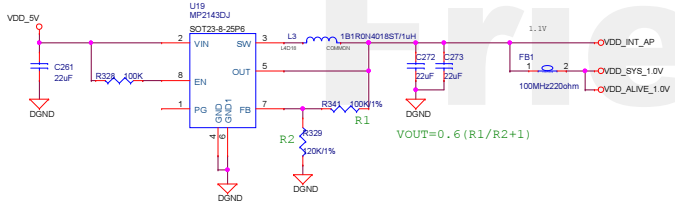
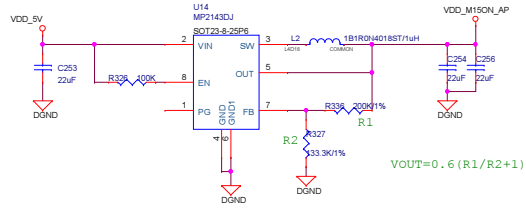
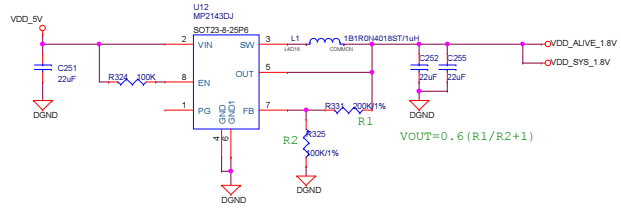


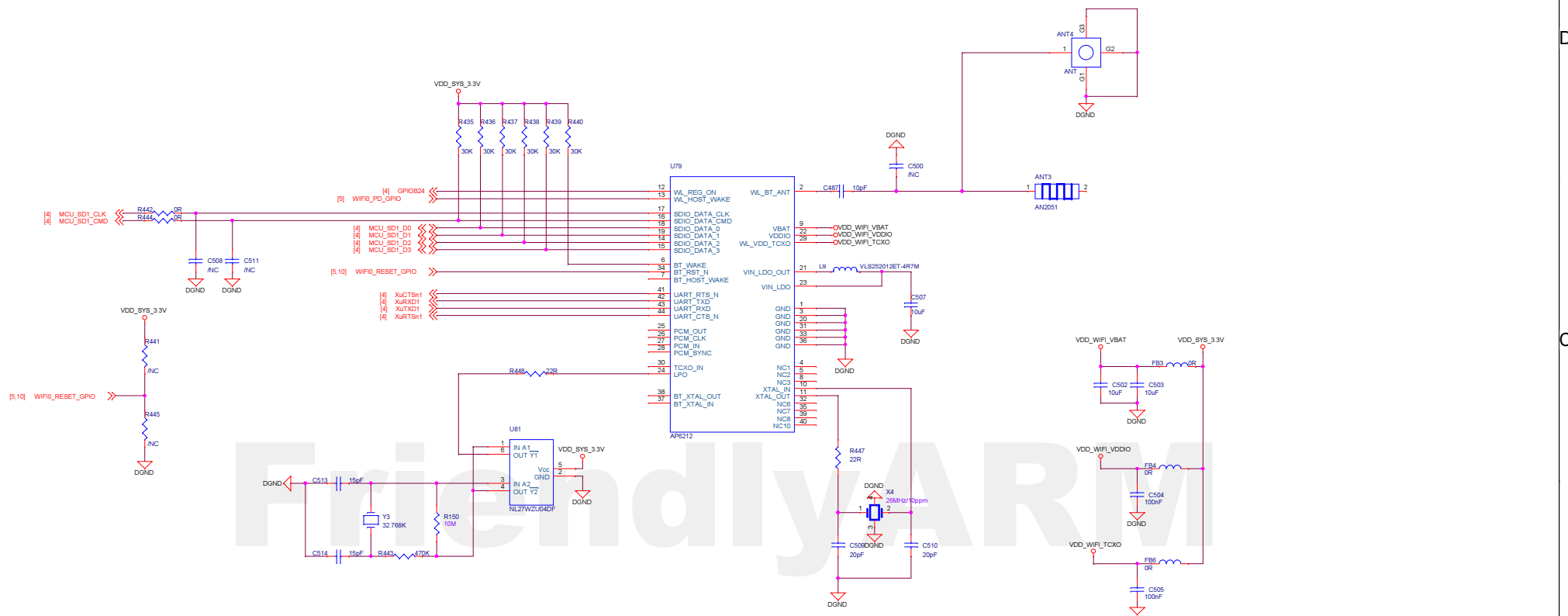
Memory-DDR3



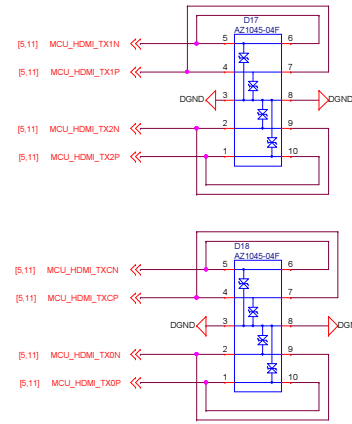
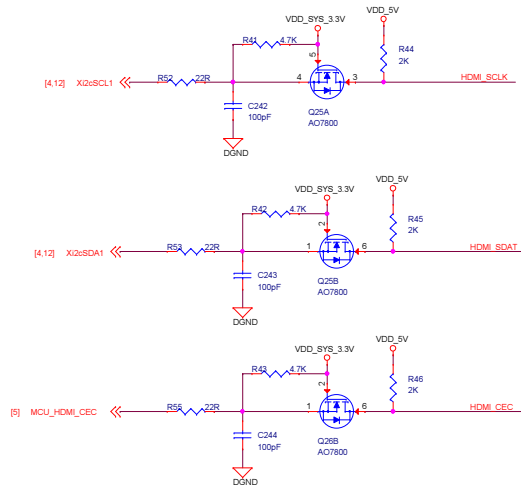


System Power

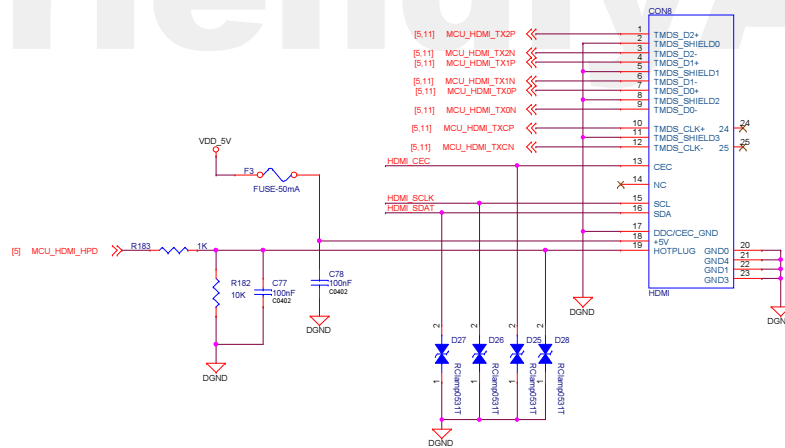




HDMI

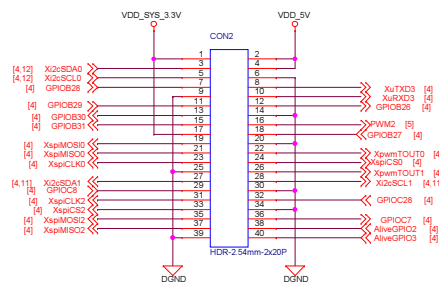


FriendlyARM

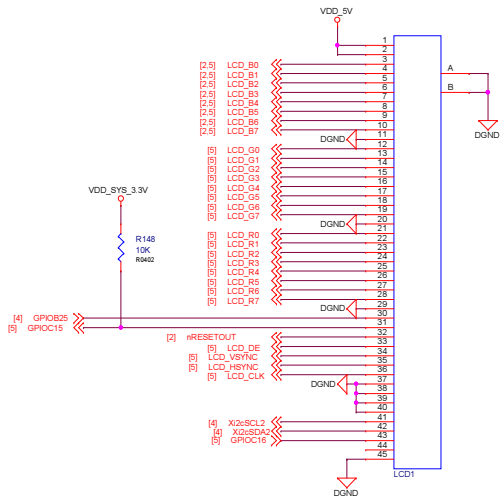


# Board Connectors

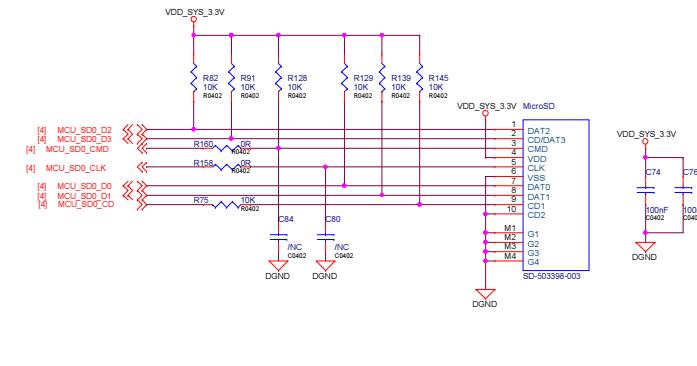
## 2x20 Pins 2.54mm Pitch Header



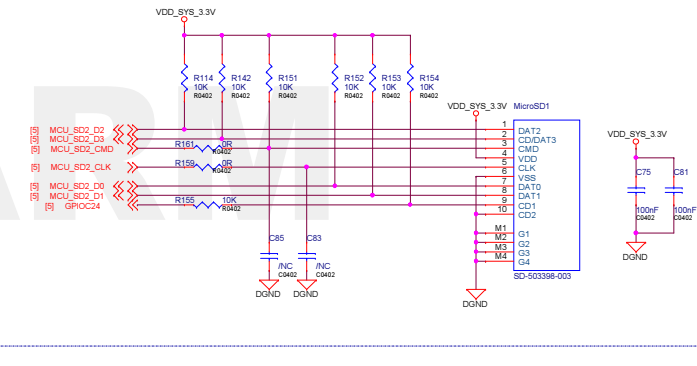
## RGB LCD Interface, 0.5mm Pitch FPC



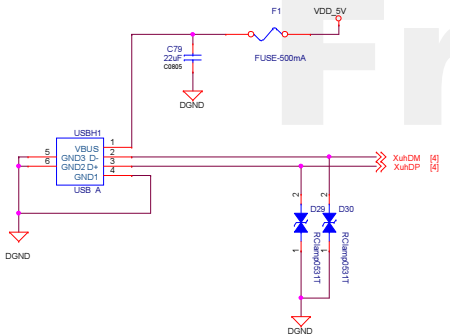
## MicroSD Slot A, Bootable



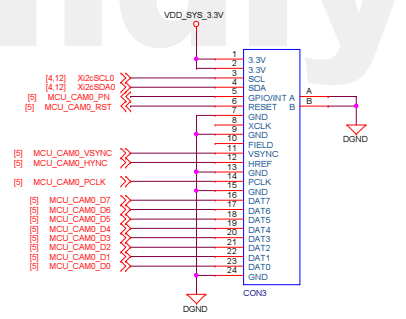
## MicroSD Slot B



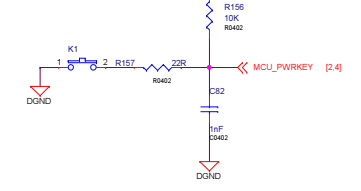
## USB 2.0 Host, Type-A



## DVP Camera Interface, 0.5mm Pitch FPC



## User Button



## Power LED, User LED



## Debug UART

